

Application No. 09/869,364

Filed: August 27, 2001

TC Art Unit: 1713

Confirmation No.: 3984

AMENDMENT TO THE CLAIMS

1. (Currently Amended) An electro-pneumatic distributor comprising

a microfabricated structure having an integrated array of channels for gas transport and electrodes, said channels and electrodes being oriented to permit both simultaneous ex—and sequential application of pressure and electric current, as needed, to selected entrance ports of a device external to said structure.

2. (Original) A microfabricated μ -TAS system comprising

a fluid sample handling microdevice having multiple channels; and

the electro-pneumatic distributor of claim 1, for the simultaneous or sequential application of electric current and pressure to individual said channels of said sample handling microdevice.

3. (Original) An electrospray system for a mass spectrometer, said system comprising

an electrospray interface having multiple electrospray tips;

the electro-pneumatic distributor of claim 1, for supplying pressure and electric current simultaneously to individual electrospray tips of said interface; and

a gasket in between said interface and said distributor.

4. (Original) A matrix assisted laser desorption interface system for a mass spectrometer, said system comprising

a deposition interface having multiple deposition tips;

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the electro-pneumatic distributor of claim 1, for supplying pressure and electric current simultaneously to individual deposition tips of said interface; and

a gasket in between said interface and said distributor.

5. (Original) An electrospray system for a mass spectrometer, said system comprising

an electrospray interface having multiple electrospray tips, said electrospray interface further comprising an array of electrodes embedded in said interface, wherein individual electrodes in said array connect with individual said electrospray tips;

a pneumatic distributor comprising

a microfabricated structure comprising an array of channels for gas transport, said channels being oriented to permit application of pressure to selected individual electrospray tips of said interface; and

a gasket in between said interface and said distributor.

6. (Original) An matrix assisted laser desorption interface system for a mass spectrometer, said system comprising

a deposition interface having multiple deposition tips, said deposition interface further comprising an array of electrodes embedded in said interface, wherein individual electrodes in said array connect with individual said deposition tips;

a pneumatic distributor comprising

a microfabricated structure comprising an array of channels for gas transport, said channels being oriented to permit

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application of pressure to selected individual deposition tips of
said interface; and
a gasket in between said interface and said distributor.